

### Amendments to the Claims

Please replace the claims with the following:

1. (Currently amended) ~~A lubricating oil composition comprising of one or more passive markers which passive markers are capable of detection in situ by a detector present in a machine which is on or running~~ A method to determine when an oil change is required in a machine, comprising:
  - i) providing an electronic nose in the machine;
  - ii) providing at least one sensor that indicates the state of the oil in the machine;
  - ii) providing a passive odorant molecule in a lubricating oil in the machine;
  - iii) using the electronic nose to detect the odorant molecule *in situ* while the machine is running;
  - iv) using the detected odorant to identify the lubricating oil in the machine;
  - v) using the at least one sensor to provide data indicating the state of the oil; and
  - vi) utilizing the data obtained in iv) and v) to determine when an oil change is required or to set values that can be used to determine when an oil change is required.
- 2-20. (Canceled)
21. (New) The method according to Claim 1 wherein the machine comprises an electronic control unit and means to transmit a signal from the detector to the electronic control unit.
22. (New) The method according to Claim 21 wherein the machine comprises an electronic control unit and means to transmit a signal from the sensor to the electronic control unit.
23. (New) The method according to Claim 1 wherein the machine comprises mechanical equipment having a lubricating system.
24. (New) The method according to Claim 1 wherein the machine is an engine.
25. (New) The method according to Claim 1, wherein the odorant molecule is present in the lubricating oil in an amount of 0.01 to 0.5 % by volume.